From this data base, average planned and unplanned shutdowns of units of global utilities were extracted and compared with those of NTPC units. The results are tabulated below:

| Unit Size (MW) | No. of Units | | Planned Outage* (%) | Unplanned Outages* (%) | | |
|---|---|---|---|---|---|---|
| | NERC Data Base | NTPC | NERC Data base | NTPC | NERC (2005) Data base | **NTPC** (2006-07) |
| 190-200 | 81 Units of 40 utilities | 33 | 6.76 | 5.82 | 5.69 | 1.89 |
| 475-525 | 79 Units of 38 utilities | 26 | 8.14 | 6.59 | **5.77** | 3.11 |

* Average of 2003 2004 and 2005 for NERC database untis and 2004-05, 2005-06 and 2006-07 for NTPC units.

From the above tabulated data, it is evident that the average planned as well as unplanned shutdowns of NTPC units is lower as compared to average shutdown of NERC data base units of similar size.

It would be seen from the above that the total shut-down period for both thermal and hydro power plants in the private sector during the year 2006-07 was considerably less than the Central & State sector plants.

**Supply of additional electricity to national grid**

1817. SHRIMATI HEMA MALINI: Will the Minister of POWER be pleased to state:

whether it is a fact that Himachal Pradesh would feed additional electricity into the National Grid, in order to help the capital to meet additional demand especially during summer;

if so, at what cost and whether Government has any plan to be self sufficient to meet the increasing power demand;

if so, the details thereof; and

if not, the reasons therefor?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) to (d) It has been informed by the Himachal Pradesh State Electricity Board (HPSEB), that they and North Delhi Power Limited (NDPL) have entered into an agreement for energy transactions under a banking arrangement for the period October, 2007 to September, 2008. Under this agreement, NDPL has made available to HPSEB about 157 MU of energy during the winter months of 2007-08 i.e. October, 2007 to February, 2008 HPSEB shall return an equivalent quantum of banked energy to NDPL during the summer months of 2008-09 i.e. June, 08 to September, 08.

This Banking arrangement between NDPL and HPSEB is in form of energy exchange only and no cash transactions are involved.

Memoranda of Understanding/Power Purchase Agreements have been signed by Delhi for availing power from various Central Generating Utilities, like, NTPC, Damodar Valley

Corporation, National Hydro-electric Power Corporation & Tehri Hydro Development Corporation. By the Commonwealth Games, 2010, Delhi will received power out of the joint venture -Aravali Thermal Power Project (TPP) (installed capacity 1500 MW), Mejia Expansion TPP(irstalled capacity 1000 MW), Koderma TPP (Installed capacity 1000 MW), Durgapur TP? (installed capacity 1000 MW) of DVC, and Dadri-II TPP Expansion (installed capcity 980 MW) of NTPC. Besides this, Government of Delhi is in the process of establishing Pragati Phase-II (Bawana Project) of 1500 MW and Pragati-Ill (Bamnauli Project) of 750 MW.

Power generation from Birsinghpur and Amarkantak Thermal Power Stations

tl818.SHRIMATI MAYA SINGH: Will the Minister fo POWER be pleased to state:

(a) whether it has been decided to generate 500 M W electricity from Birsinghpur and 210 MW electricity from Amarkantak Thermal Power Stations;

(b) by when this generation capacity is likely to be achieved and the status of the construction work;

whether BHEL would complete the construction work of the above mentioned projects in time; and

if so, ;he details thereof?

..HE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) Yes, Sir.

(b) to 'd) Central Eelctricity Authority (CEA) under the Ministry of Power monitors JS in respect on-going projects including the BHEL supplies. According to the information available with CEA, anticipated schedule to commercial operation declaration and status of construction work in respect of the two projects are as follows:

| Project Name | Anticipated schedule of commercial operation decalration | Status of construction work |
|---|---|---|
| Birsinghpur Thermal Power Station (TPS) Extn.Unti-5(500MW) | End March, 2008 | One stream of main Coal Handling Plant path has been completed on 23.2.2008. At present, the unit is under oepration and achieving load upto 400 MW. The work on second stream is in progress. Both the unit auxiliaries' transformers are under rectification at BHEL, Bhopal |
| Amarkantak TPS Extn. Unit-5(210MW) | June, 2008 | Chemical cleaning has been completed. Steam blowing is scheduled during this month. TG oil flushing is nearing completion. All the associated systems required for oil synchronization are expected to be ready by mid April, 2008. |

**tOriginal notice of the question was received in Hindi.**